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RW Ogden - Proceedings: Mathematical, Physical and Engineering Sciences, 1999 - journals.royalsoc.ac.uk

... but not so well for the stiffer rubber compounds ... the deformation only through the (positive) principal stretches  $\lambda_1, \dots, \lambda_n$  are the eigenvalues of the ...

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KN Morman, KA Mazich, FG Oblinger, F Zhang, PC ... - International Journal of Fracture, 1992 - Springer

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DW Nicholson, B Lin - Acta Mechanica, 1998 - Springer

... role in nonlinear finite element simulation of elastomeric ... for torsion of a natural rubber shaft using a ... are the squares of the principal stretches  $\lambda_i$  (singular ...

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... Consider the measurement of diffusion in a rubber band that we deform ... stretch  $U$  ...  $x_1^T U x_1$ , where  $U$  ... as  $FA(D)$  standard deviation of the eigenvalues of  $D$  ...

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... Pozrikidis & Skalak (1994) for the simulation of liquid ...  $A$  is singular with the zero eigenvalue corresponding to ...  $N$ . We proceed by defining the stretch tensor  $\Lambda$  ...

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... Several constitutive models for rubber have been developed ... which has the same eigenvalues as  $b$  ... and ready for material behavior simulation and implementation in ...

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... on the molecular approach to rubber and thermoplastic ... interests include design with explicit finite element simulation. ...  $A = dx/dX$  Stretch ratio, or stretch ...

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A Dorfmann - Acta Mechanica, 2003 - Springer

... We consider a continuous deformable rubber like solid occupying a region  $B$  ...  $\partial B$  where the principal stretches  $\lambda_i > 0$ ;  $i = 1, 2, 3$ , are the eigenvalues of  $U$  ...

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... 185 Page 9. CONTENTS ix 7.4 Ventricular mechanics simulation summary 187 ...  $U, U, L, M$  right stretch tensor ...  $f(A)$  g principal extension ratios (eigenvalues of  $U$ ) ...

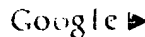
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